

Claims

- [c1] A system for securing a Radio Frequency (RF) transaction comprising:
 - a RADIO FREQUENCY IDENTIFICATION (RFID) transaction device operable to send RF transmission, the transaction device including a database for storing a transaction device identifier, and a transaction device random number generator for generating a transaction device random number.
- [c2] A system according to claim 1, wherein further comprising:
 - a RFID reader in communication with said transaction device;
 - a merchant Point of Sale (POS) device in communication with said RFID reader; and
 - an account authorizing agent in communication with said merchant POS.
- [c3] A system according to claim 2, wherein said RFID reader comprises:
 - a reader random number generator for producing a reader random number.

- [c4] A system according to claim 3, wherein said RFID reader further comprises:
 - a processor in communication with said reader random number generator; and
 - a reader database for storing a RFID reader identifier.
- [c5] A system according to claim 2, wherein said transaction device random number generator is operable to provide said transaction device random number to said RFID reader, said reader operable to provide said transaction device random number to said POS, said POS configured to provide the transaction device random number to said account authorizing agent system.
- [c6] A system according to claim 5, wherein said RFID reader is operable to provide said transaction device identifier to said merchant POS.
- [c7] A system according to claim 6, wherein at least one of said transaction device identifier and said transaction device random number is provided to said RFID reader in track 1/track 2 International Standards Setting Organization format.
- [c8] A system according to claim 6, wherein at least one of said transaction device identifier and said transaction device random number is provided to said RFID reader in

POS recognizable format.

- [c9] A system according to claim 6, wherein said authorizing agent system is configured to validate said transaction device identifier in accordance with said transaction device random number.
- [c10] A system according to claim 4, wherein said RFID reader random number generator is operable to provide said reader random number to said POS, said POS configured to provide at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number to said account authorizing agent system.
- [c11] A system according to claim 10, wherein said RFID reader is operable to provide at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number to said merchant POS.
- [c12] A system according to claim 10, wherein at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number is provided to said RFID reader in track 1/track 2 International Standards Setting Organization format.
- [c13] A system according to claim 10, wherein at least one of

said transaction device random number, transaction device identifier, and reader RFID reader random number is provided to said RFID reader in POS recognizable format.

- [c14] A system according to claim 10 , wherein said authorizing agent system is configured to validate at least one of said transaction device and said RFID reader, in accordance with said at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number transaction device random number.
- [c15] A method for securing a transaction comprising the steps of:
 - providing a transaction device, the transaction device including a random number generator;
 - providing a transaction device random number generator for generating a transaction device random number; and
 - validating the transaction device in accordance with the transaction device random number.
- [c16] A method according to claim 15 further including providing a transaction device reader, the reader including a reader random number generator;
 - providing a reader random number generator for generating a reader random number; and
 - validating at least one of the transaction device and the

reader in accordance with at least one of the transaction device random number and the reader random number.

- [c17] A method for securing a transaction comprising the steps of:
 - providing a transaction device reader, the transaction device reader including a reader random number generator;
 - providing a reader random number generator for generating a reader random number; and
 - validating the transaction device reader in accordance with the reader random number.